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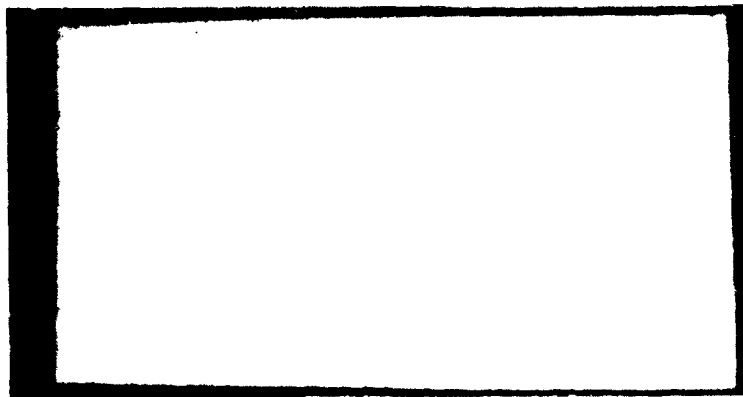
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DATE 15 July 1958

REVISED II 30 September 1961
V 30 November 1961
W 30 May 1962
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Y 30 January 1963

VOLUME I

ENGINEERING DATA
FOR GROUND SUPPORT EQUIPMENT

GAM-72

REPORT 6170
Title Unclassified

SERIAL NO. 77

MCDONNELL *Aircraft Corporation*

Classification cancelled or changed to
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MODEL GAM-72

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LEGEND

* Indicates that an illustration follows the descriptive text pages.
 (*) Indicates Illustration was added or changed by latest Revision.
 I Indicates that text page was added or changed by latest Revision.
 D Indicates Depot level of organizational use.
 F Indicates Field level of organizational use.
 T Indicates Test Phase.
 Id Indicates that text page title is double indexed.

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ALPHABETICAL INDEX

<u>Item</u>	<u>Page</u>	<u>Usage</u>		
		<u>D</u>	<u>F</u>	<u>T</u>
Accelerometer Model 2224	49.360	X		
Accelerometer-Vibration Pickup (A.T.G.) 321T Glenite	42.1*	X		X
Adapter-Accelerometer Mounting (A.T.G.) - 281142	42.2*	X		X
Adapter-Actuator Test 270121	77.169	X		
Adapter-Bearing Press 910C451-5	49.389	X		
Adapter-Bearing Press 910C451-10	49.388	X		
Adapter-Bearing Pressing (Wingfold Actuator) - AT-664	45.26*	X		
Adapter-Cable, Insulation Resistance - KT327027 (Kearfott)	49.125*	X		
Adapter-Calibrator, Governor 281574-1	42.56*	X		
Adapter-End Play Gauge KT219412 (Kearfott) .	49.115*	X		
Adapter-Engine Run Up MDE 4415	15.3*	X	X	
Adapters-Fluid Coupling	18.63		X	
Adapter-Gearshaft Spur 2109	77.143*	X		
Adapter-Governor Balancing 281573-1	42.53	X		
Adapter-K1 Relay Local Manufacture	70.7*	X		
Adapter-Load Test AT-2226	45.50	X		
Adapter-Motor (Elevon Actuator) IT-1630 ...	49.288*	X		
Adapter-Motor (Vertical Gyro) QB 85898-1 ..	49.185	X		
Adapter-Mounting (Elevon Actuator) IT-1561	49.287*	X		
Adapter-Mounting (Throttle Actuator) - IT-1562	49.279*	X		
Adapter-Shaft, Anti-Marring 701-305-093 ...	49.201*	X		

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<u>Item</u>	<u>Page</u>	<u>Usage</u>		
		<u>D</u>	<u>F</u>	<u>T</u>
Adapter-Socket, 3/4" Drive to 1" LA-72.....	80.12*	X	X	
Adapter-Socket, 1/2" Drive to 3/4" LA-12.....	80.13*	X	X	
I Adapter, Spring Test 281832-1.....	42.66	X		
Adapter-Test, Missile Position Indicator MDE 4446070	49.90*	X	X	X
Adapter-Test, Module MDE 4446039-1.....	49.84*	X	X	
Adapter-Torque Wrench LT-4417.....	49.292*	X		
Adapter-Torque Wrench LT-4346.....	49.294*	X		
Adapter-Torque Wrench 2099.....	77.144*	X		
Adapter-Torque Wrench 281569-1.....	42.54*	X		
Adapter-Torque Wrench TMA-3-1.....	49.334	X	X	
Adapter-Valve Test (A.T.G.) 281132.....	42.3*	X		
Adapter-Valve Test (A.T.G.) 257562-29.....	42.4*	X		
Adapter-Valve Test (A.T.G.) 281312.....	42.41*	X		
Adapters - Coaxial (See List on 6170 Page)...	84.46*	X	X	
Adapters - Fluid Coupling.....	18.63*	X	X	
Adapter Assy. - Depreserve, Variable Geom..... Control MDE 4406007.....	42.0.2*	X	X	
Adapter Assy. - MB-2 Oiler MDE 4406002.....	41.6*	X	X	X
Adapter Assy. - Pressure Seal, Air Control Valve MDE 4416028.....	84.151*	X	X	
Adapter Assy. - Torque Wrench (Throttle Actuator) MDE 4446018-5.....	49.56*	X	X	
Adapter Assy. - Torque Wrench (Elevon Actuator) MDE 4446018-303.....	49.56.4*	X	X	X

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<u>Item</u>	<u>Page</u>	<u>Usage</u>		
		<u>D</u>	<u>F</u>	<u>T</u>
Altitude Chamber TMBT-100350.....	49.256	X		
Ammeter - AC 528-2901004.....	45.41*	X		
Ammeter - AC 433.....	49.375	X		
Amplifier (A.T.G.) F 408 (Glenite).....	42.5*	X		X
Amplifier (Control Unit) C-823/AIC-10.....	42.19*		X	X
Amplifier - I.F. 1216A.....	84.29*			X
Amplifier - Power Model CP 3/4.....	49.350	X		
Amplifier - Video (Wide Band) 395A.....	49.327	X		
Antenna SA-334.....	82.16*	X	X	X
Antenna - AT-335/ARW 5821-090-0006.....	49.69*			X
Anvil (Mach No. Transducer) T 611.....	49.166*	X		
Anvil and Punch (Mach No. Transducer) T 531..	49.165*	X		
Applicator - "E" Rings E6.....	77.156	X		
Arbor - Balancing, Governor Assy. (Air Turbine Gen.) 281222.....	42.34*	X		
Arbor - End Bell, Concentricity Checking 281604-1.....	42.61*	X		
Arbor Set - Balancing (A.T.G.) 281395-1,.....	42.37*	X		
I Arbor - Turbine Wheel, Spin Test 281381-1	42.64	X		
Assembly Block - Motor KT 130650 (Kearfott)...	49.112*	X		
Attenuator - Fixed AA-16N BNC.....	49.320	X		
Attenuator - Fixed AT-50.....	84.49*	X	X	X
Attenuator - Step (Channel 1, 2, and 3).....	84.52			X
AT-104B				
Attenuator - Switchable 20.....	49.319	X		

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Item	Page	Usage		
		D	F	T
Cable Assy. - Intercommunication RCA MI-23018A.....	42.31		X	X
Cable Assy. - Power, Electrical MDE 4406014-1..	49.335*		X	
Cable Assy. - Power, Engine Connector MDE 4446007-3.....	49.74*			X
Cable Assy. - Propulsion Console E.G.T. Test MDE 4446090-1.....	52.3*		X	
Cable Assy. - Pulse Generator Tester MDE 4446088.....	49.197.2	X		
Cable Assy. - Pyrotester, Connecting MDE 4446033.....	15.27*	X	X	
Cable Assy. - Test, Missile Ignition System MDE 4446084-1.....	18.93*		X	
Cable Assy. - Video AC-16K, AC-16F.....	84.84*	X	X	X
Cable Assy. - Wingfold Actuator Test Bench MDE 4446006.....	45.16*	X		
Cable Assy. - A.C. Power MDE 448704-9.....	82.20*		X	
Cable Kit - Coaxial (Interconnecting) MDE 446086-1.....	82.18*	X	X	X
Cable Kit - Counter Test MDE 4446097.....	77.173*	X		
Cable Kit - Pyrotechnic Testing MDE 446095-1...	43.11*	X	X	
Calibrator - Bearing Tester 6625-049-6023.....	18.8*	X		
I Calibrator - Metering Valve 281798-1	42.65	X		
Calibrator - Speed Sensor (A.T.G.) 280975.....	42.35*	X		
Calibrator Assy. - Safety Brake MDE 4446004-1..	77.37*			X
Calibrator Assy. - Throttle Position Indication System MDE 4446026-1 and -301.....	18.26*		X	X

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Item	Page	Usage		
		D	F	T
Caliper - Micrometer, Outside 5210	77.139	X		
I Caliper - Micrometer, Outside 200 P-1	49.391	X		
CAM Plate - Load Test AT-2899	45.56	X		
Capacitor CM60B393J, MIL-C-5B	18.56*	X	X	X
Capacitor - Fixed MIL Spec Type CPO5A1EC105K ...	49.89		X	X
Capillary Tube 44-580118	84.152*	X	X	
Cap Assy. - Pressure Seal, Flareless Tube Fitting AN929A4D	49.332	X	X	
Cart - Mobile, Small Equipment and Parts Transporting C142 RHD	82.3*	X	X	X
Cartridge and Plunger 950-CP6	38.9*	X	X	X
Case - Slotted Line, Carrying 8A-45	84.32.1			X
Caster - Rack, F.C.S. Console Test RC 7756	49.110.2*	X		
Cathode Follower Model 2614	49.361	X		
Chain - Fork Lift Utility	66.1	X	X	X
Chamber - Heat Cycle (Controlled) Model FBV-9-3-3	49.345	X		
Check Fixture - Missile Rigging Fixture Certification MDE 4446022-1	62.1*		X	X
Checking Block T-616	49.339	X		
Checkout Box - Relay Monitoring MDE 4406020-1 ..	77.206	X	X	
Checkout Box Assy. - Launch Electrical MDE 3442-301	72*			X
I Clamp 29C71	84.168	X		
Clamp - End Play, Gauge NF319392 (Kearfott)	49.120*	X		
Clamp - Soldering QB-75647-1	18.10*	X		

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Clamp - Soldering QB-75684-1	18.11*	X		
Cleaner - Bearing 4920-216-7135	18.13*	X		
Cleaning Equipment	69.11	X		
Clevis Assy. - Rod End 270 119	77.170	X		
Clinometer Mark 5 USA	49.63*	X	X	X
Comparator (Ames) 13 (.001)	77.162	X		
Compressor - Air 4310-693-2653	42.18	X	X	X
Id Compressor - Air, Type MA-1A 1730-540-9914	42*	X	X	X
Connector - Electrical, Dummy, Location Device Missile Package C/O MDE 4416033-1	77.122	X		
I Connector - Plug Electrical JMSS	84.169			
Console - Control Model 64 B-E	49.342	X		
Console - Instrumentation Pneumatic Test Accessories Type 1-A E-107-47-36	84.163	X		
Console Assy. - Bomber Checkout MDE 4453-1	77.51*	X	X	X
Console Assy. - Bomber Relay Box C/O MDE 4459-1	77.164*	X	X	
Console Assy. - Flight Control Subsystem and OSS #2 C/O MDE 4440-3, -5, -301, -7	47*	X	X	X
Console Assy. - Missile Package Checkout MDE 4456	77.56*		X	X
Console Assy. - OSS #1 Checkout 40-005-100	83*			X
Console Assy. - Propulsion Subsystem and OSS #3 C/O MDE 4441	16 & 17*	X	X	X
Container Assy. - Pyrotechnic Continuity Tester MDE 4446003	43.2*	X	X	X

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		D	F	T
Ejector Assy. - Engine Cooling MDE 4446083.....	12.3*		X	
Electron Tube Test Set 6625-557-0945.....	49.1*	X	X	X
Electronic Counter (Totalizing) 325.....	45.10*	X		
End Play Tool 4699.....	77.186	X		
Expander - Spring (A.T.G.) 281366.....	42.40*	X		
Extension Bar - (Arc Compensator Universal Joint) 5463 (10" Ext).....	77.87		X	X
Extension Cord - Multiple Outlet #5267 Cap 31593 Box 14 Cond.....	49.82*		X	X
Filter - Air Line 30AE-2(5).....	18.44*		X	X
Filter - Band Pass. Variable (A.T.G.) Model 310AB.....	42.9*	X		X
I Filter, Radio Interference MDE 4406025-1.....	77.209	X	X	
Id Filter Assy. - and Water Trap 30AE-4-25.....	49.61*	X	X	X
Filter Element - Dummy 902114TT.....	41.37*	X		
Fixture - Alignment, Back-Up Assy. Latch Control MDE 4416045-1.....	77.178*	X	X	
Fixture - Alignment, Pitot Cover (Mach No. Transducer) T 790.....	49.145*	X		
Fixture - Angle Checking T-637.....	49.337	X		
Fixture - Assy. - Aft Body and Main Tank Splice AF44-3300006501TD.....	62.14*	X		
Fixture - Assy. - Back-Up Structure AF44-461011-501TD.....	77.105*	X		
Fixture - Assy. - Back-Up Structure AF44-461011-502TD.....	77.106	X		

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Fixture - Carriage Assy. Inspection IF44-472000-501TD	77.101*	X		
Fixture - Carriage Assy. Inspection IF44-472000-502TD	77.102	X		
Fixture Centering and Null Setting (Vertical Gyro) QB85835-1	49.178*	X		
Fixture - Checkout, Air Control Valve MDE 4446081	84.153*	X	X	
Fixture - Concentricity, Shaft and Mounting Dia. MT426369 (Kearfott)	49.122*	X		
Fixture - Contact Positioning (Globe Motor Switch) T-7253	77.153*	X		
Fixture - Decoder Test 201-37851	49.308	X		
Fixture - Depth and Position (Mach No. Transducer) T-527	49.156*	X		
Fixture - Dial Gage 4679	77.184	X		
Fixture - Drill Assembly (Track Fold Actuator) AT-2356	45.33*	X		
Fixture - Drill, Assembly (Track Fold Actuator) AT-2354	45.32*	X		
Fixture - Drill, Assembly (Wingfold Actuator) AT-2220	45.20*	X		
Fixture - Drill Assembly (Wingfold Actuator) AT-2221	45.21*	X		
Fixture - Electrolytic Switch Setting (Vertical Gyro) QB85798-1	49.179*	X		
Fixture, Encapsulation PF44-610000-501TD	49.384	X		
Fixture - End Play Test (Track Fold Actuator) AT-2352	45.35*	X		

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Fixture - Test, Ground Plane Antenna MDE 4446092	82.23*	X	X	
Fixture - Test, Motor Generator KT324722 (Kearfott)	49.124*	X		
Fixture - Test, Rotatable (Directional Gyro) QB85836-1	49.194*	X		
Fixture - Torque Test Actuator MDE 4446012-1 ...	49.46*	X	X	X
Fixture - Track Assy. Inspection IF44-461012-501TD	77.109*	X		
Fixture - Track Assy. Inspection IF44-461012-502TD	77.110	X		
Fixture - Track Extension Drill, Knuckle DJ44-461012-503TD	77.108*	X		
Fixture - Valve Set Metering TE8902-0005	49.381	X		
Fixture Application - Missile Fuel Tank Sealant MDE 4426	38.1*	X		
Fixture Assy. - Air Turbine Generator, Check- out Mtg. MDE 4455-1 and -3	42.10*		X	X
Fixture Assy. - Back-Up to Track Inspection and Rigging AF44-461012-503TD	77.92*	X		
Fixture Assy. - Back-Up to Track Inspection and Rigging AF44-461012-504TD	77.92.2	X		
Fixture Assy. - Calibration, Missile Position Indicator MDE 4446023	49.5.3*	X	X	X
Fixture Assy. - Launch Gear Checkout MDE 3423 ..	75*			X
Fixture Assy. - Missile Package Checkout MDE 4447	77.54*	X	X	X
Fixture Assy. - Missile Rigging MDE 4448	60*		X	X

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Fixture Assy. - Pressure Test, Fuel Cap SK122358	18.68*	X		
Fixture Assy. - Pressure Transmitter and Indicator S-1489004	18.19*	X		
Fixture Assy. - Propulsion Circuit Checkout MDE 4450	59.1*		X	X
Fixture Assy. - Wing Spread and Fold MDE 4406012-1	62.20*	X	X	
Fixture Set - Clearance TE2995-5006	49.257*	X		
Floor Crane Model HP-1/4 CJ	77.40*		X	X
Fork Lift Truck 48" Fork AF Stock No. 5015-800108-225	66*	X	X	X
Fork Lift Truck 3930-541-2487	66.02		X	
Frequency Converter 6625-519-3778	67.31*	X	X	
Frequency Sweep Cycler Model 57A	49.344	X		
Fuel Mixer Assy. - Anti-Icing Additive MDE 4416032	41.34*		X	
Fume Tester (Indicator Combustible Gas) 6665-530-0985	68*	X	X	X
Gage Block (.400 Inch Thick)	77.175		X	
I Gage, Depth, Dial Indicating 599-281-10	49.392	X		
I Gage, Depth, Dial Indicating - Setting Ring 599-281-1080	49.393	X		
Gage-End Bell, Parallelism Checking 281603-1 ...	42.60*	X		
Gage - Gram 70-J	49.234	X		
Gage - Gram GIBVO	49.235	X		
Gage - Gram Model AB 50-0-50	49.248	X		
I Gage, Humidity & Temperature Element M2A4	49.387	X		

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Gage - Inspection, Carriage Sync. Shaft 1BG2364	77.1.*		X	
Gage - Spacer TE815-5010	49.377			
Gage - Wiper Tension TF-356	49.241*	X		
Gage - Compensation TE 1357 BU-5005	49.300	X		
Gage - End Play (Vertical and Directional Gyros) QB85630-1	49.175	X		
Gage - Hydraulic Pressure, 0-3000 PSI 6685-515-6166	56.11*	X	X	
Gage - Laboratory Test Pressure 1082A (0-30 PSI)	18.46*		X	X
Gage - Laboratory Test Pressure 1082A (0-60 PSI)	18.67*		X	X
Gage - Laboratory Test Pressure 1082A (0-160 PSI)	18.48*		X	X
Gage - Pressure Type 1-BP	69.3*			X
Gage - Pressure Type 3-BP	69.2*	X		X
Gage - Push-Pull (Track Fold Actuator) 719-40	45.34*	X		
Gage - Push-Pull (Wingfold Actuator) 767	45.28*	X		
Gage - Radial and End Play KT419195 (Kearfott) .	49.121*	X		
Generator - Variable Frequency Model 1470B	49.357	X		
Generator - Void, Switch TF-286	49.240*	X		
Goniometer 1010B	49.262	X		
Ground Station Series M	67.12*			X
Grounding Strap 99	82.8*	X	X	

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Hoist Assy. - Back-Up Structure MDE 4416520-1.....	77.27*			X
Hoist Assy. - Track MDE 4416519-1.....	77.25*			X
Holder - Rotating Assembly (A.T.G.) 281365...	42.39*	X		
I Holder, Leakage Test, Piston Assembly 281891-1	42.68	X		
Holder - Step Pilot F80-0-112.....	41.1*	X		
Holder - Terminal Plate 4759.....	77.191	X		
I Holder, Test, Capillary Metering Valve 281849-1	42.67	X		
Holder - Test, Generator (A.T.G.) 281140.....	42.51	X		
Holder - Test Pneumatic Valve (A.T.G.) AIResearch P/N 253030.....	42.17*	X		
Hood - Oscilloscope Viewing TEK H510.....	67.17.1*	X	X	X
Hose - Defueling MDE 4406005.....	41.19*		X	X
Hose Assy. - Detachable End Fitting, Medium Pressure MS28741-4-0450.....	49.331	X	X	
Hose Assy. - Sealant Gun 920-5.....	38.13*	X	X	X
Hydrometer 6630-527-6149.....	18.60*	X	X	X
Impedance Bridge 6625-553-7482.....	49.65*	X	X	X
Id Indicator - Dial Model No. 2.....	49.135*	X		
Indicator - Electronic Tachometer 500C.....	49.227*	X		
Indicator - Phase Angle (Vertical and Directional Gyros) 13678-2-A.....	49.189	X		
Indicator - Phase Sequence Model K-6 or K-5....	18.32*	X	X	X
Indicator - Synchro Servoed Test (Vertical and Directional Gyros) 13678-2-A.....	49.188	X		

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Kit - Cable Repair MDE 4416047-1	77.179*	X		
Kit - Pressure MK20A/Up	84.124*	X	X	X
Lapping Tool - Bearing Seat KT219067 (Kearfott)	49.113*	X		
Lead - Jumper MDE 4406016-1	49.352	X		
Lead - Jumper MDE 4406017-1	49.353		X	
Lead - Test MDE 4406015-1	49.336*		X	
Leveling Plate F65-0-81	41.5*	X		
Lifter - Pointer 8-1489011	18.84*	X		
Id Load Checking Fixture AT-2039-R-1550M9-1	45.4*	X		
Id Load Checking Fixture AT-2039-R-1550M9-2	45.4.2	X		
Locking Tool - Impeller T-73	41.2*	X		X
Loupe - Watchmaker's Eye 18-41-05	49.132*	X		
Low Pass Filter (700 Megacycles Cutoff Frequency) 360A	82.25	X	X	
Lubricator - Portable, High Pressure 4930-517-4264	56.9	X	X	
Lug - Launch Gear Component Hoist MDE 4416004	77.19*	X	X	X
Manometer - U Tube 6685-527-7262	49.15.2*	X	X	X
Manometer (0-60" Hg) 6685-549-4803	49.143.5	X		
Manometer (30" Water) Type A 324 TM	69.9*			X
Manometer System - Pressure, Differential and Absolute Type E-1 or 1070C	49.16*	X	X	X

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Megger 6625-538-9497	71*	X	X	X
Megohmmeter 1862B	49.17*	X	X	X
Meter - P. M. Deviation TF791D	49.310	X		
I Meter, Fluid Flow Indicating HRA3T	84.167			
Meter - Frequency FM3	49.62*			X
Meter - Frequency TS-117/GP	84.21	X	X	X
Meter - Frequency (Channel #2) Type 587 UHF	84.36*			X
Meter - Frequency (Channel #3) H-410A	84.34*			X
Meter - Frequency, 380-420 CFS 5097-3 MF21	41.30*	X		
Meter - Frequency, Ignition System 5098, Type MF-21	45.40*	X		
Meter - Kilowatt Model 641 W/TY52 External Resistor	41.29*			X
Meter - Megacycle (Combination) 59	84.38*	X		
Meter - Micro Wave Power 430C	84.88*	X	X	X
Meter - Orifice Tube 3" Orifice Tube Meter	69.8*			X
Meter - Standing Wave Ratio H05-415B	84.16*	X	X	X
Microammeter - Multi-Range Model 622	18.28*		X	X
Micrometer - Tubular Inside 121C	77.126*	X		
Milliohm-meter Model 502	43.8*	X	X	
Millivolt Potentiometer 8662	18.107	X		
Mixer - Continuous, Fuel Tank Sealant 1600	38.15*	X		
Mixer - (UHF) 874-NR	84.98*			X

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Preloading Tool - Wheel and Rotor 281572-1	42.59*	X		
Press Tool - Bearing 4739	77.189	X		
Press Tool - Lock Nut 4689	77.185	X		
Probe - Attenuator F510A	84.78*	X	X	X
Probe - Pressure (A.T.G.) 3705	42.45*	X		
Probe - Wire Heater BH1278	70.10*		X	
Production Test Panel AT-1927	45.6*	X		
Protective Clothing	69		X	X
Protractor - Adjusting, Throttle Actuator MIE 4416036-1	18.101*	X	X	
Protractor - Bevel 491-12	41.26*		X	X
Puller - Bearing 253722	77.167	X		
Puller - Bearing 1011	49.390	X		
Puller - Bearing, Motor Generator (External) KT319022 (Kearfott)	49.118*	X		
Puller - Bearing, Motor Generator (Internal) KT319069 (Kearfott)	49.119*	X		
Puller - Bearing Removal (Track Fold Actuator) AT-252	45.36*	X		
Puller - Bearing (Wingfold Actuator) AT-770-2	45.24*	X		
Puller - Flanged Bearing (Vertical and Directional Gyros) QB85588-1	49.183	X		
Puller - Mechanical Wheel 281570-1	42.57*	X		
Puller - 3 Inch Round Indicator BH 3097	18.105	X		

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Pulley - Motor Load Test AT-1901-3	45.3*	X		
Pulley - Motor Load Test AT-1826-6	45.47	X		
Pulley - Motor Load Test AT-2798	45.54	X		
Pulse Generator 2140A, MP-1A AN/UPM-15(6625-519-7599)	49.51*	X	X	X
Pulse Generator 6625-519-5593	84.27*			X
Pump - Vacuum Model KC-2	69.6*			X
Pump - Vacuum and Pressure 1410W	49.264	X		
Pusher - Bearing 4629	77.180	X		
Pusher - Bevel Gear 4659	77.182	X		
Pusher - Plug 4669	77.183	X		
Pyro Tester Model 9B	15.13*		X	X
Rack - Cabinet, FCS Console Test CR-1773	49.110*	X		
Rack - Missile Shipping and Storage MDE 4414	57*	X		X
Receiver - F.M. - A.M. - (Communication) 770R ...	49.312	X		
Receiver - F.M. - A.M. - (Communication) 770U ...	49.311	X		
Receiver - Telemetering Model 842C-2	67.4*			X
I Recorder 101 & RCS 6-90	49.247	X		
Recorder - Curvilinear RD252100	49.199*	X	X	
Recorder - Rectilinear 152-5460	49.23*	X		X
Recorder - Rectilinear (A.T.O.) 154-5460	42.47*	X		

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Recorder - Tape, (with PDM Electronics) Model FRL14	67.8*			X
Recorder - Watchmaster Model G-57	49.254	X		
Refrigerator, Mechanical, Commercial RZB-503 ...	49.386	X		
Remover - Pointer Hand No. 310-A	18.86*	X		
Resistance Decade Box Model 510-AA	18.58*	X	X	X
Resistance Decade Box 1432K	18.24*	X	X	X
Resistor RW210122, MIL-R-26/31C	18.53*	X	X	X
Resistor RW310122 or RW560122, MIL-R-56/31C	18.52*	X	X	X
Resistor MB35044-125	18.109		X	
Resistor MB35350-82	49.232*	X	X	X
Resistor - Dropping 59505-660-6402	18.36*		X	X
Resistor - 47K ohms 1/4 Watt BTR-1/4-47000	43.9	X	X	
Resistor Assembly MDE 4406019-1	49.356	X		
Restrictor Unit - Air Flow	42.63	X		
RF Filter Assembly - Power Line MDE 4406013-1	49.233*	X	X	
RF Voltmeter 91C	49.314	X		
Rigging Installation - Engine Run Up MDE 343712	15.1*	X	X	X
Ring Adapter QB71013-15	18.81*	X		
Rod - Bearing Seating RT219283 (Kearfott)	49.114*	X		
Rotary Power Supply Model 45B	49.341	X		

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Rotor - Bearing Test 5220-347-2140	18.7*	X		
Rotor - Bearing Test (Vertical and Directional Gyros) QB72217-3	49.180*	X		
Rotor - Jig 4719	77.187	X		
Rule - Steel, 6", Machinist 5210-273-1965	18.64*	X	X	X
Rule - Steel, 48", Machinist 5210-287-4923	18.65*	X	X	X
Rule - Steel, 72", Machinist 416-R-72 Inches	77.128*	X		
Safety Goggles or Eye Shields 527-C	82.9*		X	X
Safety Tool Assy. - Launch Gear Shackle MDE 3432	77.1*			X
Safety Tool Assy. - Launch Gear Shackle MDE 4416002-301	77.17*			X
I Scale - Beam Indicating V7518	49.383	X		
Scale - Bench Dial 12038A	38.19*	X	X	
Scale - Gram (Mach No. Transducer) T 788	49.149*	X		
Scale - Gram T 1072	49.298	X		
Scale - Push Pull, Spring Gauge "R" (0 to 2 lbs.)	49.255	X		
Scale - Spring (Vertical and Directional Gyros) QB72966-10	49.181	X		
Scope Mobile 500/53A	49.57*	X	X	X
Screen and Bellmouth Assembly - Engine Inlet MDE 4449	24*		X	X
Screw Driver (Mach No. Transducer) T 664	49.152*	X		
I Screw Driver - Calibration TE 1442-5008	49.379	X		
I Screw Driver - Eccentric Jewel TE 865-5162	49.378	X		
Screw Driver - Jewelers 555A (T-416)	49.351	X		

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Sleeve and Thimble - Oil Seal Installation INS-1-C	49.226*	X		
Sleeve - Rotor Shaft 4729	77.188	X		
Sling - Engine Hoist 8220 - X21C766 (-7 engine).	35*	X	X	X
Sling - Launch Gear Assy. Hoisting MDE 4425	77.62*		X	X
Sling Assy. - Launch Gear Component Hoisting MDE 4424	77.45*	X	X	X
Sling Assy. - Missile Hoisting MDE 3451	7*	X	X	X
Slotted Line 805-A	84.31*			X
Socket Hansen 3200 or 3300	42.25*		X	X
Socket - 2" x 3/4" Sq. Drive LNH-642	80.16*	X	X	
Socket - 2-3/8" x 1" Sq. Drive L-763	80.15*	X	X	
Solution - Bearing Cleaning 6505-113-9000	18.5*	X		
Solution - Gas and Air Leak Detector	82.17	X	X	X
Splicing Tool - Shielded Wire 16 Gage 59255	84.17*		X	X
Splicing Tool - Shielded Wire 20 Gage 59254	84.18*		X	X
Staking Set - Jewel Bearings Model 18-R	18.85*	X		
Stand - Aux. Missile Storage MDE 4416041-1	80.18*		X	
Stand - Calibration TE 3119-5002	49.380	X		
Stand - Calibrating (Alt. Controller) TE-2995-5007	49.302	X		
Stand - Gyro Test (Vertical and Directional Gyros) 13073-1-C	49.186*	X		
Stand - Hermetic Sealing 4920-329-8844	18.22*	X		

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Stand - Mounting, Tilt-Turn Table MDE 4446020 ..	49.78*	X	X	X
Stand - Roll and Pitch Test 13617-2-A	18.77*	X		
Standing Wave Detector PRD 219	82.22*	X	X	
Stand Assy. - Forward Body Maintenance MDE 4423	84.5*	X	X	X
Stand Assy. - Missile Maintenance MDE 4418	21.1*	X	X	X
Static Proof Clothing	82.6			X
Stool 7110-270-6099	49.50.9		X	X
Stop Watch 116A (Minerva)	82.4*	X	X	X
Straightedge #385	77.42*		X	X
Strap Assy. - Umbilical MDE 342434-1	77.176*		X	
Strap Wrench #18 #5	77.53*		X	X
Stripper, Wire, Power 45-130	49.383	X		
Strobotac 631-B	45.9*	X		
Supermicrometer G2100	13.3*	X		
Support - Balancing Rotating Assy. (Air Turbine Gen.) 4920-336-0647	42.33*	X		
Support - Magnetic Pick-up Coil AT-2799	45.55	X		
Support Assy. - Air Line, Engine Start MDE 4406001	33.3*	X	X	X
Support Fixture - Rotary Components KT426607 (Kearfott)	49.131*	X		
Suppressor (Choke Inductor) JW14-250	18.57*	X	X	X
Surface Plate (Local Manufacture)	49.169*	X		

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Swager - Pressure Tool PS	49.206*	X	X	
Swager - Punch, Pressure PSP-1	49.207*	X	X	
Swager - Punch, Pressure PSP-2	49.269	X	X	
Swager - Punch, Pressure PSP-3	49.208*	X	X	
Swager - Punch, Pressure PSP-4	49.209*	X	X	
Swager - Punch, Pressure PSP-5	49.210*	X	X	
Swager - Punch, Pressure PSP-7	49.211*	X	X	
Swager - Punch, Pressure PSP-10	49.212*	X	X	
Swager - Punch, Pressure PSP-11	49.270	X	X	
Sweep Generator 602	49.318	X		
Switches - Coaxial (Manual) 4 Position 4AB	84.24*			X
Switch - Reversing MB35059-23	18.61*		X	X
Table - Laminated Work 7195-285-5924	49.50.7*		X	
Table - Shaker Model 44	49.343	X		
Table - Shaker Model B-285	49.348	X		
Table - Tilt Turn Type P1-4	49.26*	X		X
X Tank - Pressure VF44-610001-501	49.385			
Template Assy. - Elevon Rigging MDE 4446001	13.1*			X
Terminations 535 MB & 535 FB	84.47*	X	X	X
Test Bench - Fuel 4920-337-9843	41.35	X		
Test Bench - Fuel Booster and Fuel Transfer Pumps S-527	41.32	X		
Test Bench - Fuel Flow 4920-535-1065 311AHT ...	18.110*	X		

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Test Bench - Hydraulic KG-100.....	56.13	X		
Test Bench - Pneumatic 8100-NL 94040-25.....	41.33	X		
Test Board - Control Assy. (Fire Detector) Local Manufacture.....	70.3*	X		
Test Board - K1 Relay Local Manufacture.....	70.6*	X		
Test Box - Pneumatic, Drawer #8 F.C.S. Console MDE 4446038.....	49.83*		X	
Test Box - Propulsion Console MDE 4446034.....	18.70*	X	X	
Test Box - Throttle System and Fire Detector, Propulsion Console MDE 4446093-1.....	18.102	X	X	
Test Box Assy. - Actuator MDE 4446091.....	45.42*	X		
Test Cable - Missile Position Synchro Indicator Local Manufacture.....	49.263	X		
I Test Chamber and Console, Overspeed Rotary 281800-1.....	42.69	X		
Test Console - Insulation Resistance KTH26598 (Kearfott).....	49.129*	X		
Test Fixture - Breakaway Connector, Alignment MDE 4446077-1.....	77.113*	X	X	
Test Fixture - Torque Transmitting (Mach No. Trans.) T 1109.....	49.296	X		
Test Head TE3506-5002.....	49.261*	X		
Id Test Indicator - Universal Model No. 2.....	49.135*	X		
Test Kit - Elevation Alignment MDE 4446096-1.....	49.286*		X	
Test Machine - Linear Actuator Multi-Purpose 4920-724-2877.....	77.171	X		
Test Panel AT-2866.....	45.59	X		

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Tester Panel #2 - Propulsion System Checkout Console ETE MDE 4441033-501TD	18.95*	X		
Tester Panel #3 - Propulsion System Checkout Console ETE MDE 4441036-501TD	18.96*	X		
Tester Panel #4 - Propulsion System Checkout Console ETE MDE 4441039-501TD	18.97*	X		
Tester Panel #5 - Propulsion System Checkout Console ETE MDE 4441042-501TD	18.98*	X		
Tester Panel #6 - Propulsion System Checkout Console ETE MDE 4441045-501TD	18.99*	X		
Thermistor 477B-95A	84.138	X	X	X
Thermocouple - 0° - 1800°F (A.T.G.) T 1033	42.43*	X		
Thermometer 6685-526-8257	18.92		X	
Thermometer Model 21410	69.4*			X
Timer - Electrical 6645-547-4472	49.3*	X	X	X
Timer - Electrical 6645-171-9639	49.3.2*	X	X	X
Tip - Unsoldering (K1 Relay) Local Manufacture	70.4*	X		
Tip - Unsoldering (K2 Relay) Local Manufacture	70.5*	X		
Tone Generator BCC 6	49.316	X		
Id Tool - Activator, A.T.G. Pressure Shutoff Control 662757	42.52 *	X	X	
I Tool - Alignment Bridget T1216	49.395	X		
Tool - Alignment 7495	18.113	X		
Tool - Alignment 8282	49.79*			X

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Tool - Alignment 8606	49.80*			X
Tool - Alignment, Altitude Beam and Counter Weight (Mach No. Transducer) T 786	49.147*	X		
Tool - Alignment (Mach No. Transducer) T 779 ...	49.148*	X		
Tool Bearing Assy. Female QB-85500-130	18.82*	X		
Tool - Bearing Assy. Male QB-85500-30	18.83*	X		
Tool - Bearing Press 4639	77.181	X		
Tool - Block, Clinching and Knockout (Dzus Fastener) 5120-391-0120	77.131*	X	X	
Tool - Block, Cup Installation (Dzus Fastener) 5120-391-0119	77.133*	X	X	
Tool - Brush Alignment, High Speed S-633	77.158*	X		
Tool - Brush Alignment, Low Speed S-590	77.157*	X		
Tool - Clapper Adjusting S-597	49.253*	X		
I Tool - Contact Inserting 11-6781	77.203	X		
I Tool - Contact Inserting 11-6782	77.204	X		
I Tool - Crimping 11-7350-16	77.202	X		
I Tool - Crimping 11-7350-20	77.201	X		
Tool - Crimping - Deutsch Connector, Contact 15500-20	67.28*	X		
Tool - Cup Installation (Dzus Fasteners) 5120-391-0098	77.134*	X	X	
Tool - Cup Installation (Dzus Fastener) 5120-391-0117	77.132*	X	X	
Tool - Dowel, Pressing (Mach No. Transducer) T 596	49.167*	X		
Tool - Dowel, Pressing (Mach No. Transducer) T 854	49.168*	X		
Tool - Drain, Fuel Vent Fitting MDE 4416540-1 ..	41.12*			X

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Tool - Extraction AMP380305-1.....	49.277	X	X	
Tool-- Filter Holding MDE 4416051-1.....	49.358	X	X	
Tool - Fuel Tank Sealant Filleting MDE 4416019.....	38.11*	X	X	X
Tool - Hand Crimp 48698.....	49.140*	X	X	
Tool - Hand Crimp 47044.....	49.141*	X	X	
I Tool - Hand Crimp (Taper Tab) 45592.....	77.210	X	X	
Tool - Hand Crimping 107-0903-2.....	67.25*			X
Tool - Hand Crimping 59527.....	77.199	X		
Tool - Hi-Torque Socket Adapter.....	77.68*	X	X	X
Tool - Housing Removal S-589.....	49.252*	X		
Tool-- Inner Brain Bearing Staking.....	49.340	X		
Tool - Inserter, Contact, 90° 11-3692.....	77.116*	X	X	
Tool - Insertion 380306-3	49.366	X	X	
Tool-- Insertion - Deutsch Connector, Contact 15510-20.....	67.29*	X		
Tool-- Insertion Heli-Coil 535-3N.....	49.382	X		
Tool-- Insertion, Pin 107-1015.....	67.24*			X
Tool - Insertion, Pull Test Type 380375-1.....	49.39*	X	X	
Tool - Insertion, Taper Tab 380306-5.....	77.195	X		
Tool - Insertion, Taper Tab 380306-6.....	77.196	X		
Tool - Insertion, Test Type 380375-2.....	49.138*	X	X	
Tool - Jewel Insertion T-415.....	49.347	X		
Tool - Knockout Punch (Dzus Fastener) 5120-391-0118.....	77.135*	X	X	
Tool - Limit Switch Activator MDE 4416049-1...	77.194	X	X	
Tool - Link Adjustment T-413.....	49.338	X		
Tool - Locators - Universal Pin 107-0930.....	67.27*			X

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Tool Kit - Bearing Cleaning QB-70606-2.....	18.6*	X		
Tool Kit - Calibrating (Mach No. Transducer) T571	49.142*	X		
Tool Kit - Contact Removing 11-6900.....	77.200	X		
Tool Set - Ignition Lead Installation MDE 4416018.....	77.72*	X	X	X
Tool Set - Limit Switch Activation Inspection MDE 4416049-1.....	77.194	X	X	
Torch - Soldering Type 5 in 1 and an MC Prestolite Tank.....	69.7*			X
I Torque Indicator T1-701-1.5-2.....	49.396	X		
Torque Indicator T1-701-15-5.....	49.200*	X		
I Torque Indicator T1-701-5-2.....	49.397	X		
Track Extension Assy. - Stub, Launch Gear Checkout MDE 4446005-1 and -2.....	77.23*		X	X
Track Extension Assy. - Stub Launch Gear (Carriage Removal) MDE 4416013-9 and -10	77.64*	X	X	X
Id Tractor - Wheeled, Warehouse, Gasoline Powered (Draw Bar Tow TR) 5015-640055.....	4*	X	X	X
Id Trailer - Air Supply, Type MA-1A 17304540-9911.....	42*	X	X	X
Trailer - Aircraft Engine, Aluminum Frame 1740-516-7929; 1740-516-7930.....	64.1*	X		
Trailer - Bomb Lift (Type MP5) 1730-141-2083.	15.14*	X	X	
Trailer (MB-1) Stock # (52J6207) 2330-041-1290.....	77.60*		X	X
Trailer - Type MHU-7/M, Bomb AF29(601)-506....	77.47*		X	X
Trailer Assy. - Engine Handling MDE 3411.....	22*			X
Trailer Assy. - Engine Handling MDE 4411-1.....	23.03*	X	X	

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Vacuum Pump - Manometer HY 14 91705 Type 10.....	49.204*	X		
Vacuum Tube Voltmeter D.C. 412.....	49.315	X		
Valve - Air, Beacon Pressurizing MDE 4446031	82.14	X	X	X
Valve - Air Pressure Relief 649X-1-4.....	18.50*		X	X
Valve - Pressure Relief 644-4-1/4.....	18.114	X	X	
Valve - Restrictor Assy. MDE 4406023-1.....	84.166	X		
Valve - Shutoff 649T-PP(P).....	18.115	X	X	
Id Variac W10G3.....	18.42*	X	X	X
Voltmeter R-2A.....	67.14*			X
Voltmeter 410B.....	84.66*	X	X	X
I Voltmeter, Digital MDE 4406024-1.....	49.398	X	X	X
Voltmeter, Electronic Model 803.....	49.365	X		
Voltmeter - Electronics (A.T.O.) Ballentine Labs Model 300.....	42.16*	X		X
Voltmeter - (Electrodynameter) Weston Model L341 341-1902004.....	49.229*	X		
Voltmeter - Phase Angle 202BR - S110.....	49.299	X		
Voltmeter - Vacuum Tube, AC 400H.....	49.36*	X	X	X
Voltmeter - Vacuum Tube DC MV17-C.....	49.35*	X		
Washer - Hoist, Ground Handling MDE 4416533-3.....	77.58*			X
Id Water Trap and Filter Assy. 3 OAE-4-25.....	49.61*	X	X	X
Wattmeter - Model University Type UWADK.....	49.376	X		
Wattmeter - Termiline Model 611-RF (AN/URM 43).....	67.20*			X
Wedge - Cam Follower S-592.....	77.159*	X		

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MDE343712	15.1
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MDE3451	7
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MDE4406005	41.19
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QB-70747-1	18.80
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QB-72217-2	18.7
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1740-516-7929	64.1	281141 (4920)	42.7
18	77.53	281142	42.2
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2	49.135	281365	42.39
2	45.13	281366	42.40
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201-37863	49.307	281603-1	42.60
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2099	77.144	281798-1	42.65
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2109	77.143	281832-1	42.66
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4240-270-4399	69
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ENGINEERING DATA FOR Arbor - Turbine Wheel, Spin Test

I SYSTEM ANALYSIS DATA - A means is required to mount and adapt the turbine wheel (355073) to the motor shaft of the overspeed test during overhaul and repair of the 356698-3 Air Turbine Generator Set.

II DESCRIPTION OF GSE RECOMMENDED - There is no known GFE that will meet the above requirement. Recommend the use of Arbor - Turbine Wheel, Spin Test, AiResearch P/N 281381-1 which has been designed for this purpose. This Arbor has maximum dia. of 1.37 inches and is 6.09 inches long. This tool slips over the turbine wheel shaft and is held in position by a cotter pin. The holder is held on the test chamber motor shaft by set screws.

III ITEM NAME

IDENTIFY NO. (PART, DRAWING, ETC)	GFP OR CFE	EST. TIME TO PRODUCE 1st ARTICLE IF CFE	LEVEL OF ORGANIZATIONAL USE			REQUIRED FOR TEST PHASE	REQUIRED FOR MANUFACTURING FACILITY	MEE	RESP. LAB OR CENTER	FUNC. AREA TO WHICH EQUIP. APPLIES
281381-1	CFE		ORGAN	FIELD	DEPOT					Generator Set
			1							

ENGINEERING DATA FOR Calibrator, Metering Valve

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I SYSTEM ANALYSIS DATA - A means is required to perform a leakage check on the 93655-12 Metering Valve

Assemblies prior to final assembly into the 118747-1 Body Assembly during overhaul and repair of the 356698-3 Air Turbine Generator (Reference T.O. 9P7-4-3)

II DESCRIPTION OF GSE RECOMMENDED - There is no known GFE that will meet the above requirement. Recommend the use of Calibrator, Metering Valve, AIRsearch P/N 281798-1 which has been designed for this purpose. This tool is approximately 1.9 inches in diameter and 1-1/2 inches high. This calibrator will hold the metering valve assembly and provides a fitting for connecting an air source to perform the leakage check. The metering valve is placed in this tool and a holding plate is slid over edge of the valve body and held in place by tightening a thumb screw.

III ITEM NAME - Calibrator, Metering Valve

IDENTIFY NO. (PART, DRAWING, ETC)	GFP OR CFE	EST. TIME TO PRODUCE 1st ARTICLE IF CFE	LEVEL OF ORGANIZATIONAL USE			REQUIRED FOR TEST PHASE	REQUIRED FOR MANUFACTURING FACILITY	MEE	RESP. LAB OR CENTER	FUNC. AREA TO WHICH EQUIP. APPLIES
			ORGAN	FIELD	DEPOT					
281798-1	CFE				1					Generator Set

ENGINEERING DATA FOR Adapter, Spring Test

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I SYSTEM ANALYSIS DATA - A means is required to apply either a 5 lb. or 10 lb. load simultaneously to three surfaces of the 661668 Spring Assembly to insure that specific dimensions are kept when the Spring Assembly is in a loaded condition during overhaul and repair of the 356698-3 Air Turbine Generator. (Reference T.O. 9P7-4-3).

II DESCRIPTION OF CSE RECOMMENDED - There is no known CFE that will meet the above requirement. Recommend the use of Adapter, Spring Test, AiResearch P/N 281832-1 which has been designed for this purpose. The dimensions of this adapter is 0.625 inches in diameter and 0.401 inches high.

III ITEM NAME - Adapter, Spring Test

IDENTIFY NO. (PART, DRAWING, ETC)	GFP OR CFE	EST. TIME TO PRODUCE 1st ARTICLE IF CFE	LEVEL OF ORGANIZATIONAL USE			REQUIRED FOR TEST PHASE	REQUIRED FOR MANUFACTURING FACILITY	MEE	RESP. LAB OR CENTER	FUNC. AREA TO WHICH EQUIP. APPLIES
			ORGAN	FIELD	DEPOT					
281832-1	CFE				1					Generator Set

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ENGINEERING DATA FOR Holder, Test, Capillary Metering Valve

I SYSTEM ANALYSIS DATA - A means is required to check the 115665 Capillary Metering Valve Assembly for pressure drop within a prescribed range during overhaul and repair of the 356698-3 Air Turbine Generator. (Reference T.O. 9P7-4-3)

II DESCRIPTION OF GSE RECOMMENDED - There is no known GFE that will meet the above requirement. Recommend the use of Holder, Test, Capillary Metering Valve, AiResearch P/N 281849-1 which has been designed for this purpose. This tool consists of a flat plate with a two piece cylindrical test chamber.

III ITEM NAME - Holder, Test, Capillary Metering Valve

IDENTIFY NO. (PART, DRAWING, ETC)	GFP OR CFE	EST. TIME TO PRODUCE 1st ARTICLE IF CFE	LEVEL OF ORGANIZATIONAL USE			REQUIRED FOR TEST PHASE	REQUIRED FOR MANUFACTURING FACILITY	MEE	RESP. LAB OR CENTER	FUNC. AREA TO WHICH EQUIP. APPLIES
			ORGAN	FIELD	DEPOT					
281849-1	CFE				1					Generator Set

D.1.3.1.1 (a) (c)

ENGINEERING DATA FOR Holder, Leakage Test, Piston Assembly

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I SYSTEM ANALYSIS DATA - A means is required to leakage test the 661388-2 cylinder and 661386-2 Piston Assembly prior to final assembly during overhaul and repair of the 356698-3 Air Turbine Generator. (Reference T.O. 9P7-4-3)

II DESCRIPTION OF GSE RECOMMENDED - There is no known GFE that will meet the above requirement. Recommend the use of Holder, Leakage Test, Piston Assembly, AiResearch P/N 281891-1 which has been designed for this purpose. This tool consists of two cylindrical chambers approximately 3.25 inches in dia. and 2 inches high.

III ITEM NAME - Holder, Leakage Test

IDENTIFY NO. (PART, DRAWING, ETC)	GFP OR CFE	EST. TIME TO PRODUCE 1st ARTICLE IF CFE	LEVEL OF ORGANIZATIONAL USE			REQUIRED FOR TEST PHASE	REQUIRED FOR MANUFACTURING FACILITY	MEE	RESP. LAB OR CENTER	FUNC. AREA TO WHICH EQUIP. APPLIES
			ORGAN	FIELD	DEPOT					
281891-1	CFE				1					Generator Set

D.1.3.1.1 (a)(c)

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ENGINEERING DATA FOR Test Chamber and Console, Overspeed, Rotary

I SYSTEM ANALYSIS DATA - A means is required to subject the turbine wheels and impellers to an overspeed spin test to detect possible metal fatigue or high speed unbalance during overhaul and repair of the 356698-3 Air Turbine Generator. A suitable test chamber with a high speed drive motor is required to contain and rotate the components under test, and a control console is necessary for monitoring and controlling the critical test operation.

II DESCRIPTION OF GSE RECOMMENDED - There is no known GFE that will meet the above requirement. Recommend the use of Test Chamber and Console, Overspeed, Rotary, AiResearch P/N 281800-1 which has been designed for this purpose. This console is approximately 24 x 60 x 84 inches in size. This console consists basically of the following items:

A. Test Chamber

1. Overspeed Tank
2. Pneumatic Pressure and Vacuum Connections
3. Removable Cover Assembly which includes the air "drive" motor with associated sensing instrumentation and lubrication connections.
4. An electrical 1/4 ton hoist to facilitate removal and re-installation of the cover assembly.

III ITEM NAME - Test Chamber and Console, Overspeed, Rotary

IDENTIFY NO. (PART, DRAWING, ETC)	GFP OR CFE	EST. TIME TO PRODUCE 1st ARTICLE IF CFE	LEVEL OF ORGANIZATIONAL USE			REQUIRED FOR TEST PHASE	REQUIRED FOR MANUFACTURING FACILITY	MEE	RESP. LAB OR CENTER	FUNC. AREA TO WHICH EQUIP. APPLIES
			ORGAN	FIELD	DEPOT					
281800-1	CFE				1					Generator Set

D.1.3.1.1 (a)(c)

ENGINEERING DATA FOR Test Chamber and Console, Overspeed, Rotary

II DESCRIPTION OF GSE RECOMMENDED - Continued

B. Control Console

1. Speed Indication Recorder
2. Electronic Counter and Tachometer
3. Oscilloscope
4. Vibration Indicator
5. (3) Pressure Gauges
6. Vacuum Pump and Controls
7. Lubrication System for the Test Chamber Air Motor
8. Miscellaneous Manual Valves and Regulators

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DATE 15 July 1958

REVISED II 30 September 1961
V 30 November 1961
W 30 May 1962
X 30 September 1962
Y 30 January 1963

VOLUME III
ENGINEERING DATA
FOR GROUND SUPPORT EQUIPMENT
GAM-72

REPORT 6170 SERIAL NO. 77

MCDONNELL *Aircraft Corporation*

Classification cancelled or changed to
Unclassified, by authority of DD 254
Revised 1 Oct. 1959

Data pages 49.222 thru 77.100

ENGINEERING DATA FOR RECORDER

REPORT NO. 6170
PAGE NO. 49.247
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DATE 30 September 1960
30 January 1963

I SYSTEM ANALYSIS DATA - A recorder is required to measure the time-sequence pattern on the

A. W. Haydon pulsing switches used on the E7870 Clock Assembly and the D7833 Clock Assembly.

A 3 pen recorder is required with a response time of 2.5 milliseconds required. This is required since a tolerance requirement of 25 milliseconds is needed.

II DESCRIPTION OF GSE RECOMMENDED . - There is no known GFE which will fulfill this requirement. Recommend a

Larson Instrument Co (of Terrytown New York) Recorder P/N 101 or equal be used.

Note: 1. An ROS 6-90 recorder manufactured by Larson Instrument Co. is an acceptable equivalent to P/N 101 recorder.

III ITEM NAME - Recorder

IDENTIFY NO. (PART, DRAWING, ETC)	GFP OR CFE	EST. TIME TO PRODUCE 1st ARTICLE IF CFE	LEVEL OF ORGANIZATIONAL USE			REQUIRED FOR TEST PHASE	REQUIRED FOR MANUFACTURING FACILITY	MEE	RESP. LAB OR CENTER	FUNC. AREA TO WHICH EQUIP. APPLIES
			ORGAN	FIELD	DEPOT					
Larson 101 ROS 6-90	CFE				1					Flight Control System

D.2.(a)

MCDONNELL AIRCRAFT CORPORATION

ENGINEERING DATA FOR Torque Indicator

REPORT NO. 6170
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DATE 30 January 1963

I SYSTEM ANALYSIS DATA - A means is required to measure the minimum no load torque (drag) in both the energized and de-energized condition of the clutch-brake (Autotronics P/N MC-4-1) which is part of the servo zeroing unit (MDE 4440940) of the MDE 4440 Console. A lower range is required, reference T.O. 31X2-66-2-3, than the previously recommended part TL-701-15-5, M.A.C. Report 6170 Page 49.200.

II DESCRIPTION OF GSE RECOMMENDED - There is no known GFE that will meet this requirement. Recommend use of a torque indicator (Autotronics Inc. P/N TL-701-1.5-2) or equal for this purpose.

III ITEM NAME - Torque Indicator

IDENTIFY NO. (PART, DRAWING, ETC)	GFP OR CFE	EST. TIME TO PRODUCE 1st ARTICLE IF CFE	LEVEL OF ORGANIZATIONAL USE			REQUIRED FOR TEST PHASE	REQUIRED FOR MANUFACTURING FACILITY	MEE	RESP. LAB OR CENTER	FUNC. AREA TO WHICH EQUIP. APPLIES
			ORGAN	FIELD	DEPOT					
TL-701-1.5-2	CFE				1					FCS & OSS #2 Checkout

D.2.C

ENGINEERING DATA FOR Torque Indicator

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I SYSTEM ANALYSIS DATA - A means is required to measure the minimum brake and clutch torque of the clutch-brake (Autotronics P/N MC-4-1) which is part of the servo zeroing unit (MDE 444C940) of the MDE 4440 Console. This has a more accurate range than the presently recommended TL-701-5-5. Reference M.A.C. Report 6170 Page 49.200, for use in accordance with T.O. 31X2-66-2-3.

II DESCRIPTION OF GSE RECOMMENDED - There is no known GFE that will meet the above requirement. Recommended use of a torque indicator (Autotronics Inc. P/N TL-701-5-2) or equal for this purpose.

III ITEM NAME - Torque Indicator

IDENTIFY NO. (PART, DRAWING, ETC)	GFP OR CFE	EST. TIME TO PRODUCE 1st ARTICLE IF CFE	LEVEL OF ORGANIZATIONAL USE			REQUIRED FOR TEST PHASE	REQUIRED FOR MANUFACTURING FACILITY	MEE	RESP. LAB OR CENTER	FUNC. AREA TO WHICH EQUIP. APPLIES
			ORGAN	FIELD	DEPOT					
TL-701-5-2	CFE				1					FCB & OSS #2 Checkout

D.2.C

6-4

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ENGINEERING DATA FOR Voltmeter, Digital

I SYSTEM ANALYSIS DATA - A high impedance voltmeter is required to determine the potential level of D.C. voltages at high and/or low impedance level test points throughout the flight control system and A.C. voltages at high and/or low impedance test points in the electronic portion of FCS. The voltmeter must be capable of measuring A.C. and D.C. input and output signals, signal nulls and zero's and reference supplies.

(1) 0 to 450V D.C.; $\pm 0.01\%$ accuracy; (2) -0 to 220V A.C.; $\pm 0.1\%$ accuracy is required for FCS Console calibration as well as bench maintenance testing.

II DESCRIPTION OF GSE RECOMMENDED - Recommend the use of a Cubic Digital Voltmeter composed of the following units:

- (a) D.C. Voltmeter Unit, Model V-51, FSN 6625-771-4065
- (b) A.C. Converter Unit, Model AC-2, FSN 6125-724-9056
- (c) Control Unit, Model C-1, FSN 4935-769-9139

The above units are to be used and calibrated as a complete assembly. In the event that procurement is preferred, M.A.C. Part Number MDE 4406024-1 has been assigned.

Procurement of Digital Voltmeter by individual components was previously recommended on Pg. 49.58.

III ITEM NAME - Voltmeter, Digital

IDENTIFY NO. (PART, DRAWING, ETC)	GFP OR CFE	EST. TIME TO PRODUCE 1st ARTICLE IF CFE	LEVEL OF ORGANIZATIONAL USE			REQUIRED FOR TEST PHASE	REQUIRED FOR MANUFACTURING FACILITY	MEE	RESP. LAB OR CENTER	FUNC. AREA TO WHICH EQUIP. APPLIES
MDE 4406024-1	CFE		ORGAN	FIELD	DEPOT	5*				Flight Control System
			3	3	3					

* GAM-72B Retrofit D.2.1.4(a)(c)

DATE 15 July 1958

REVISED V 30 November 1961
W 30 May 1962
X 30 September 1962
Y 30 January 1963

VOLUME IV
ENGINEERING DATA
FOR GROUND SUPPORT EQUIPMENT
GAM-72

REPORT

6170

SERIAL NO.

17

MCDONNELL *Aircraft Corporation*

Classification cancelled or changed to
Unclassified, by authority of DD 254
Dated 24 August 1961

Data pages 77.101 and up
Appendix A pages A-1 and up

ENGINEERING DATA FOR Filter, Radio Interference

REPORT NO. 6170
PAGE NO. 77.205
END ITEM IDENT. GAN-72
REV. Y
DATE 30 January 1963

I SYSTEM ANALYSIS DATA - A means is required to eliminate spurious signals which could cause erroneous indications when using an electronic counter to check the accuracy of the MDE 4459 Bomber Relay Box Checkout Console Time Clock. (Reference T.O. 33D2-31-3-1, November 1962 revision)

II DESCRIPTION OF GSE RECOMMENDED - There is no known GFE that will meet the above requirement. Recommend the use of a locally manufactured filter assembly consisting of a 68K resistor (MS 35043-131), an 11K resistor (MS 35043-112) and a 0.33 microfarad capacitor be manufactured per instructions contained in section V of T.O. 33D2-31-3-1, 1 November 1962. In the event that procurement is preferred, M.A.C. Part Number MDE 4406025-1 has been assigned.

Note: 1. This page was incorrectly numbered on preliminary release as page 77.205.

III ITEM NAME - Filter, Radio Interference

IDENTIFY NO. (PART, DRAWING, ETC)	GFP OR CFE	EST. TIME TO PRODUCE 1st ARTICLE IF CFE	LEVEL OF ORGANIZATIONAL USE			REQUIRED FOR TEST PHASE	REQUIRED FOR MANUFACTURING FACILITY	MEE	RESP. LAB OR CENTER	FUNC. AREA TO WHICH EQUIP. APPLIES
			ORGAN	FIELD	DEPOT					
MDE 4406025-1	GFE			1	1					Bomber Component Checkout

J.1.8.1(a)

REPORT NO. 77.210
 PAGE NO. 77.210
 END ITEM IDENT. GAM-72
 REV. YX
 DATE 30 January 1963

ENGINEERING DATA FOR Tool - Hand Crimp (Taper Tab)

I SYSTEM ANALYSIS DATA - A means is required to crimp the (AMP Inc. P/N 60015-3) taper tabs to electrical

wire. These tabs are used on the Tarus Corp. K-2-1100A Card Sensor, P/N MDE 4458008-3 which is installed

on the MDE 449-301 Bomber Relay Box Checkout Console. This tool supersedes AMP P/N 48698, reference

Pg. 49.110, and is necessary to obtain a better connection.

II DESCRIPTION OF GSE RECOMMENDED - Recommend use of No. 45592 Hand Crimp Tool, made by AMP Inc. Harrisburg, Pa.,

which has been designed for use with 24-22 wire size and an insulation range of .040-.060 diameter.

III ITEM NAME - Tool - Hand Crimp (Taper Tab)

IDENTIFY NO. (PART, DRAWING, ETC)	GFP OR CFE	EST. TIME TO PRODUCE 1st ARTICLE IF CFE	LEVEL OF ORGANIZATIONAL USE			REQUIRED FOR TEST PHASE	REQUIRED FOR MANUFACTURING FACILITY	MEE	RESP. LAB OR CENTER	FUNC. AREA TO WHICH EQUIP. APPLIES
			ORGAN	FIELD	DEPOT					
45592 AMP INC	CFE			1	2					Bomber Com- ponent Check- out

J.1.8.1 (a) (c)